

Diagram No. 1257-2

NOAA FORM 76-35A

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SERVICE

# DESCRIPTIVE REPORT

Type of Survey Wire Drag

Field No. R/H-40-1-70

Registery No. FE-209WD

LOCALITY

State Florida

General Locality .Tampa Bay .....

Sublocality West of Egmont Key

19 70

CHIEF OF PARTY LCDR C. Andreasen

LIBRARY & ARCHIVES

☆U.S. GOV. PRINTING OFFICE: 1985-566-054

NOTE: A new system for registering Field Examinations (FE's) was established in 1980. All FE's are now consecutively numbered as shown hereon. The date shown in the new format is the actual date of survey. This material was previously registered as:

FE No.1, 1970

WIRE DRAG

Diag. Cht. No. 1257-

ENVIRONM AL SCIENCE SI ICES ADMINISTRATION
DAST AND GEODETIC SURVEY

# DESCRIPTIVE REPORT

Type of Survey Wire Drag

Field No. RH-40-1-70 Working No. Nons-

### LOCALITY

State Florida

General locality Tampa Bay, Florida

Locality West of Egmont Key

19 70

CHIEF OF PARTY

LCDR CHRISTIAN ANDREASEN

LIBRARY & ARCHIVES

DATE 4/2/71

USCOMM-DC 37022-P66

FO			GS-	537
(B- 1	1 S. S	0)		

### U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

REGISTER NO.

#### HYDROGRAPHIC TITLE SHEFT

NONE

HIDROGRAPHIC TITLE SHEET	NONE
INSTRUCTIONS - The Hydrographic Sheet should be accompanied by this form,	FIELD NO.
filled in as completely as possible, when the sheet is forwarded to the Office.	RH 40-1-70WD
StateFLORIDA	*
General locality APPROACHES TO TAMPA BAY	
WEEK OF FOLONE VON	
Scale 1:40,000 Date of sur	
Instructions dated Dec. 30, 1969 Project No.	
'esselNOAA SHIPS RUDE & HECK	
CHRISTIAN ANDDRAGEN	
SHIPS OFFICERS	
Soundings taken by echo sounder, hand lead, pole, NA WIRE DE	RAG SURVEY
Graphic record scaled by	
Graphic record checked by	
Protracted by GUY F. TREFETHEN (VERIFICAT	
Drag Strips by SXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	
Soundings in KANAKK feet at MLW MIXWX	
REMARKS:	
· · · · · · · · · · · · · · · · · · ·	
:	
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## APPROVAL SHEET

The attached report, records, and plotting sheets have been inspected by me and are approved.

Christian Andreasen

LCDR U

USESSA

Commanding Officer USC&GSS RUDE & HECK

# DESCRIPTIVE REPORT TO ACCOMPANY WIRE DRAG INVESTIGATION PROJECT OPR-479

TAMPA BAY, FLORIDA

1970

USC&GS Ships RUDE & HECK

LCDR Christian Andreasen - Chief of Party

### A. PROJECT

Project instructions dated 30 December 1969. Said instructions; paragraph 2, states "...a brief stop shall be made at Tampa, Florida, in order to investigate the reported obstruction at 27° 35.0' N, 82° 53.7'W."

# B. AREA SURVEYED & DATES

The wire dragged area is a one mile radius circle about the obstruction at 27° 35.0' N, 82° 53.7'W shown on C&GS Chart 586. Survey operations were conducted in accordance with project instructions and publication 20-1, Wire Drag Manual.

Wire drag operations commenced on 5 February 1970. This followed a short repair period at Hendry Shipyard. The ships were damaged on 27 Fahuary 1970 upon arrival at Tampa Bay. Operations concluded on 2 March 1970 with the project completed.

#### C. VESSELS & EQUIPMENT

The ships RUDE & HECK acted as guide and end vessels respectively, during the entire operation. The RUDE & HECK launches, RU-3 and HE-3, and skiffs, RU-1 and HE-1, served as the tender.

		-1/ 1/ already
VESSEL	COLOR	sed for all drag work
RUDE	Blue	Guide Vessel
HECK	Red	End Vessel
RU-3	Purple	RUDE Launch
HE-3	Green	HECK Launch
RU-1	Orange	RUDE Skiff
HE-1	Brown	HECK Skiff

3/6 = standard

Standard wire drag equipment was used. The wire is (1,"), one by nineteen stainless steel wire. Standard wire drag buoys were used. Plain toggles were weighted with ½ inch and 3/8 inch shackles. Ribbed toggles were weighted with ½ inch, 7/16" and 3/8" shackles. Toggles were placed every 50 feet to maintain nearly neutral buoyancy of the drag.

# Sounding Equipment

RUDE	DE-723	s/n	1275
HECK	DE-723	s/n	1273
RU-3	DE-723	s/n	1271
HE-3	DE-723	s/n	1283

## D. SMOOTH SHEET

In accordance with instructions from the Atlantic Marine Center the ships used C&GS Chart 586 as a boat sheet. The ships personnel plotted daily drag strips on tracing overlays. Upon completion of the project, personnel transferred all work to two boat sheets. One boat sheet has south to north drag strips plotted. The second boat sheet has north to south drag strips plotted.

In accordance with instructions from the Atlantic Marine Center, the ships will transfer all wire drag data to \*\*\*. Processive stranger office for smooth plotting.

Branch, Amc.

# E. CONTROL

Electronic and electronic-visual control were used.

Electronic-visual control constituted a reading from one operable raydist unit and a visual arc. Raydist equipment failure forced this type of control. Electronic-visual control was used on "G" day. This day did not cover any area not covered by other drag strips. To day Not plotted—

### F. SHORELINE

All wire drag plots on C&GS Chart 586 making the shoreline self evident.

# G. TIDAL REDUCERS

Preliminary reduction of each day's data was made using predicted tides from St. Petersburg, Florida.

Site 3074, Egmont Key, Egmont Channel is closest to the item investigated. Tides were corrected for high water - 2 hours 27 minutes, and for low water - 2 hours 24 minutes.

No portable guages were installed.

Upon receipt of actual tides from Rockville, Maryland tide reducers were entered in the wire drag volumes.

# H. CROSSLINES

Crosslines were not used in this wire drag operation.

# I. JUNCTIONS

The wire drag survey formed no junctions with other surveys.

## J. SPLITS

The project area was wire dragged without splits. Drag strip overlap exceeded 600' in all cases.

# K. GROUNDINGS AND SHOALS

See attachment.

# L. DISCREPANCIES AND COMPARISON WITH PRIOR SURVEYS AND CHARTS

The project instructions indicated that the area should be dragged within two feet of the general bottom. Refer to the Groundings and Shoals section. C&GS Chart 586 indicates a minimum depth of 32 feet within the one mile circle project limits. Numerous groundings occurred with effective depths shoaler than this indicated 32 foot shoal. The wire drag survey indicates chart 586 is deficient and should be updated.

# M. CURRENTS

Drag strips were run in north to south and south to north directions. There was little effect on the drag caused by currents.

# N. ADEQUACY OF SURVEY

This survey is considered adequate. It disproves the reported obstruction but shows the area is shoaler than Chart 586 indicates.

# O. AIDS TO NAVIGATION

Aids to navigation both fixed and floating are adequate for the area. The E Int 4 Sec 134 ft. Priv. maintd. light at 27° 45' 23" N., 82° 45' 33" W. is no longer operable.

## ATTACHMENT I

OPR 479 TAMPA BAY WEST OF EGMONT KEY

DATE	DAY LETTER	VOLUME NUMBER	NAUTICAL MILES	RUDE & HECK NO. OF POS.	TENDER SOUNDINGS & POSITIONS
5Feb70 6Feb70 9Feb70 11Feb70 12Feb70 13Feb70 18Feb70 19Feb70 20Feb70	A B C D E F G H J	I I II II II II	2.4 3.2 4.0 1.6 1.8 4.7 0.8 2.7	156 90 102 42 58 120 24 70	
24Feb70 25Feb70 2Mar70	K L M 12	111 111 111 3	5.1 2.5 <u>3.2</u> 33.4	128 42 66 934	

Area 5.8 square nautical miles.

# ATTACHMENT II

LIST OF SIGNALS

Visual Control was Not usul on Smooth plot - HLP

			• • • • • • • • • • • • • • • • • • • •						
NAM	<u>!E</u>	<u>50</u>	URCE						
ACE		LOI	NG KEY 1	PANK			C&GS	Chart	586
BIG		U.S	S. V.A.	HOTEL, I	HOSPIT	AL	C&GS	Chart	586
C00			SS-A-GRI ACH TANK				C&GS	Chart	586
DIM	•	MUI	LET KEY	TANK			C&GS	Chart	586
END	•	SKY	TPA BAY TWAY NW HT 1954		Ξ.		G-106	579	
FAR		SKY	IPA BAY WAY SW HT 1954	SUNSHINE TOWER			G-106	79	
GUS			ONT CHA	NNEL RAN 1957	IGE		G-118	42	
HEX				NNEL RAN T 1957		<b>-</b> '	G-118	42	
IVY				LIGHTHO 1873			G-303	7	
RED	RAYDIST	1,970	USCAGS	S RIIDE &	ирск				

RED RAYDIST 1970 USC&GSS RUDE & HECK
Raydist site established 1970

GREEN RAYDIST 1970 USC&GSS RUDE & HECK Raydist site established 1970

#### ATTACHMENT III

RAYDIST REPORT - TAMPA BAY - OPR-479

#### GENERAL

The Ships RUDE AND HECK operate under the unique situation of dual party operation where the mobile units frequently are required to be within close proximity of one another. The ships are normally docked outboard of one another or within one ship length of each other. Dockside calibration was attempted on the Ship HECK with very little success. Experience with this type of calibration again showed it to be somewhat unreliable. This unreliability could have been caused by the close positioning of the ships and/or the electrical noise at the pier. The only way of assuring a true calibration of the field work is to calibrate by sextant fix, fixed aid, or buoy calibrate. In conclusion, since dock space is usually some distance from the working grounds and sometimes in areas of electrical noise, it has been normal procedure to calibrate in the working grounds by one of the other methods with the ships separated by a satisfactory distance.

During the TAMPA BAY Project, the HECK frequency was 3300.400 kc; and the RUDE frequency, 3300.465 kc. Between the 1969 and 1970 field seasons, the RUDE frequency was shifted from 3300.425 kc to 3300.465 kc. This change improved the overall operation since no drift or interference of ship station frequencies occurred during entire project.

Overall operation of the Raydist during the TAMPA BAY Project was satisfactory, with less than 24 hours of "down time" attributed to the Raydist. Most of this down time was not actually lost because the vessels wire dragged on "G" DAY using a visual angle and one raydist shore station reading.

#### EQUIPMENT

Ship HECK Ship HECK Ship RUDE Ship RUDE	navigator transmitter navigator transmitter		s/n s/n s/n s/n	48 28 49 25	
RED Station		,	s/n	34	used from 5 Feb. until 13 Feb.
GREEN Station		΄,	s/n	35	
RED Station (on	loan from AMC)		s/n	69	used from 13 Feb. until 2 March

# ATTACHMENT IV

GROUNDINGS 8	& SHOALS S	mosth plotting overlays	<b>46</b> .
DAY	LAT & LONĠ	mooth planting oranings	CLEARED DEPTH
1. A 5 Feb. 70	approx. 27 <sup>0</sup> 35'10"N 82 <sup>0</sup> 52'30"W	"N" buoy topple. Day kept for statistics and not to be smooth plotted. Raydist lost over 10 lanes.	"B" day / strip #2; 30' eff. depth
2. B 6 Feb. 70	27 <sup>0</sup> 35'22"N ~ 82 <sup>0</sup> 52'52"W ~ .	Temporary hang near buoy #3. Divers below but slipped off of hang. (C&GS Chart 586 shows 36')	"C" day strip #2 to 32' "D" Day to 29' "E" day to 29'-30' "F" day strip #1 to 30'
3. C 9 Feb. 70	approx. 27 <sup>0</sup> 35'23"N <sup>2</sup> 82 <sup>0</sup> 52'54"W <sup>2</sup>	Numerous topples. Jak Drag at 33' eff. depth in 36' of water by C&GS Chart 586. Drag set too deep.	"H" day to 30' "B" day strip #2 to 30'-31'
4. C 9 Feb. 70	approx. 27035'35"N ~ 82053'02"W ~		"F" day strip #1 to 30' "K" day strip #1 to 34'-33'
5. D 11 Feb. 70	27 <sup>°</sup> 36'02"N 82 <sup>°</sup> 53'27"W	"N" buoy topple. Chart 35'. Evidently sag in section because cleared to 38' effective.	"K" day strip #1 to 35'-34'
6. E 12 Feb. 70	27 <sup>0</sup> 35'13"N / 82 <sup>0</sup> 53'27"W /	N,1,&2 buoys top- pled much of drag strip.	"K" day strip #1 to 35'-34' 33' "D" day to 35'-29'

7. F Strip #1 13 Feb. 70	27 <sup>0</sup> 35'30"N 82 <sup>0</sup> 53'27"W	Numerous topples (N-1); Drag set too deep; C&GS Chart 586 shows 35'-40'; Drag depth was 35' effec- tive.	"K" day strip #1 to 35'-33'. "D" day to 35'-29'.
8. F Strip #2 13 Feb. 70	27 <sup>0</sup> 35'22"N <sup>2</sup> 82 <sup>0</sup> 54'27"W <sup>2</sup>	#5 buoy topple. C&GS (2) Chart 586 indicates (4) 42 or more feet of C water. Drag at 37'- 38' effective depth and had topples.	"K" day strip #2 to 35' "M" day to 35'
9. F Strip #2 13 Feb. 70	27°36'31"N - 82°54'18"W -	"N" buoy topple. Top- pled area well outside l mile circle project limits and never re- dragged. Drag was set too deep.	None - out- side project limits
10. J 20 Feb. 70	27035'17"N 82054'42"W	Hang at buoy #2. Divers down- hung on bottom. Dragging at 35' effective depth in 44' by C&GS Chart 586. In shifting RUDE towline from port to starboard side the drag apparently dropped and hung on the bottom	"L" day to 34'-35' "M' day 7035'
11. K Strip #1 24 Feb. 70	27 <sup>0</sup> 34'51"N 82 <sup>0</sup> 54'22"W	Temporary hang at #3 buoy; slipped off. Drag effective to 34'; Cleared on "L" day to 34' indicating there must have been sag on "K" day.	"L" day to " to 34!  M' day to " to 35" pe where
12. L 25 Feb. 70	27 <sup>0</sup> 36'28"N 82 <sup>0</sup> 54'37"W	Buoys N-3 toppled at start of line. 42' of water by C&GS Chart 586. Effective depth was 35'. Area not re- dragged because outside project area.	None-out- side project limits.

# Raydist Control G.P.'s for RH 40-1-70 WD

Red Raydist 1970	27° 42′ 30.345 82° 44′ 17.730
------------------	----------------------------------

27º 36¹ 05.924 82º 45¹ 40.790 Green Raydist 1970

I'A N.p. Drag parted & diffecult Manediverale of Drag. Area cleared on "B" &"H" day  II. i)  N.P. Strip #1 Broys Grounding Area Cleared on 'B" strip #2, "E" strip #1,  I'C"  N.P. Strip #1 & strip #2 Broys Topples & excessive Lift. Area covered 'B" strip #2 & "H" day &"F" day	
"H"day d" F" Jan	
C NP. Strip #1 & strip #2 Buoys Topples & excessive Lift. Area covered B" strip #2 & "H"day &"F" law	
7	
"D" N.P. excessive Lift of Raydist Trouble Area covered on "K" day	
"E" N.P. excessive Lift of Raydist Trouble  Area covered on "K" day	
N.P. Strip#2 excessive Lift & Grounding Area covered on "K" day	<del>-</del>
G" N.P. excessive Lift. Area Covered on "H"day	
J" N.P. Rejected by the Field.	
N.P. Buoys Topples Aren covered on "M"da  N.P. Strip# 1 Not Needed Covered on "M"  day strip #2	٠ ٢

# AMC ELECTRONIC CONTROLLED SURVEY (RANGE-RANGE)

# PARAMETERS FOR POLYCONIC PROJECTION

PARAMETERS FOR POL	CYCONIC PROJECTION
(1) PROJECT No. OPR- 479 (4)	
(2) H No. Nons - (5)	SHIP OR OFFICE VEV. Br. Amc.
(3) FIELD NO. RH- 40-1-70 WD- (6)	DATE REQUIRED YOUR Convenience
(7) CENTRAL MERIDIAN 82 0	50 ' 00 "
(3) SURVEY SCALE 1: 40,000	
(9) SIZE OF SHEET (CHECK ONE) 36 X 5	54 36 × 60 OTHER 36 × 36
(10) NYX ORIENTATION OF SHEET (CHE	
NYX = 1	$NYX = 0 \square$
· N	N
1	C MER
C MER	
	A
(11) PLOTTER ON	RIGIN
. (CORNER OF.	SHEET)
LATITUDE	27 . 28 ' 30 "
	83 0 011 00 11
	000 021 00 11
GRID INTERVAL	
Make projection on heaving	ick Malar -
Trake projectime on meaning	

PRELIMINARY EVALUATION of F.E. I (1970) Danage to forfort betweenmak z' 6an 16'"

Damage to plates from anchor lying onterfor On even bool draft furtices 319"

Demage was at dopter 29's' to 25'3"

Joseph tide of 1 ft, at depth, 28'3" to 24'3" Wiredrag coverage of 35' to 30
Heating Repel is adequate to Sibulbship their recenity. Following clasting of the following of the DR may be considered: 82° 54'54" 27 35 23" (1) X 35 ' 27 3602 82 53 27" (2) 8 82 54 27 " 37 27 35 22 " (8) 82 54 22" 27 3451" (1) (4) X (7) \* (5) 82 53 34" 36 2703533" From ADD Those are provided evelkout benefit of spanning records because of deadline Bopplied to 586 Prof 24 Carolino 5/21/71

#### AMC VERIFICATION BRANCH

### ADDENDUM To Accompany

WIRE DRAG FIELD INVESTIGATION RH 40-1-70WD

# GENERAL

Because of the small area investigated, this survey was treated as a field examination. A registry number was not requested.

Over a period of 12 letter days (A thru M), 17 drag strips were attempted. Eleven of these strips were not smooth plotted because of Raydist control problems, excessive lift, ineffective dragging, field rejections, etc. The field records and the field plots of these strips were carefully checked for symptoms of hangs which would indicate obstructions. While numerous groundings ocurred the drag continued to tow and, as noted in paragraph "L", the grounds were idicative of shoaling in the area.

Six of the better drag strips were chosen for smooth plotting and it is believed they disprove the existence of any sizeable submerged obstruction within a radius of one mile of the charted position.

The lines smooth plotted are as follows:

24 to 45B, 3 to 27F, 1 to 35H, 2 to 35K, 36 to 64K and 14 to 33M

Hugh L. Proffitt

Chief, Verification Br., AMC

Norfolk, Va. March 29, 1971 FORM 197 (3-16-55)

,	GEOGRAPHIC NAMES			/ /	Juley /	angle		r: <u>-                               </u>	Map	ALIOS	, , , /
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	W • D •	. /	or 40	00 40.	20 /	GOT TOTAL	/ Noto!	0.00	a and M	35.3	/
<del>p.                                    </del>	Name on Survey		/ B	/c	D	E	F	G	Н	K	
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FORM C&GS-946 (REV. 11-65) (PRESC. BY HYDROG RAPHIC MANUAL 20-2, 6-94, 7-13)

# U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY NAUTICAL CHART DIVISION

# HYDROGRAPHIC SURVEY STATISTICS HYDROGRAPHIC SURVEY NO. F.E.No. 1\*1970 W.D.

RECORDS ACC	OMPANYING SURV	/EY: To be	comp	leted whe	n survey	is registered.		
RECORD DESCRIPTION AMO		DUNT		RECORD DESC	AMOUNT			
SMOOTH SHEET & A&D Sheet 1				BOAT SHEETS			2	
DESCRIPTIVE RE	EPORT		1		OVERL	.AYS		6
DESCRIPTION	DEPTH RECORDS	HORIZ, CO RECORE		PRINT	OUTS	TAPE ROLLS	PUNCHED CAR	ABSTRACTS/ SOURCE DOCUMENTS
ENVELOPES								
CAHIERS								
VOLUMES	6							
BOXES								2
T-SHEET PRINTS	(List)							
SPECIAL REPORT	rs (List)					-		
		OF	FICE	PROCES:	ING AC	TIVITIES		
	The following sta	tistics will	be su	bmitted w	ith the c	artographer's repo	rt on the survey	
00/	OCESSING ACTIVI					АМО	UNTS	
	PROCESSING ACTIVITY PRE- VERIFICATION VERIFICATION				REVIEW	TQTALS		
POSITIONS ON SH	IEET							
POSITIONS C	CHECKED					-		
POSITIONS F	REVISED							
DEPTH SOUNDING	3S REVISED							
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					· · · · · · · · · · · · · · · · · · ·	TIME (MA	NHOURS)	
TOPOGRAPH	HIC DETAILS		***************************************					
JUNCTIONS				,				
VERIFICATI GRAPHIC RE	ION OF SOUNDINGS ECORDS	FROM						
SPECIAL AD	DJUSTMENTS							
ALL OTHER	WORK						-	
_	TOTALS							
PRE-VERIFICATIO	N BY	<del></del>				BEGINNING DATE	ENDIN	IG DATE
VERIFICATION BY						BEGINNING DATE	ENDIN	IG DATE
REVIEW BY					BEGINNING DATE ENDING D			

# U.S. DEPARTMENT OF COMMERCE E55A COAST AND GEODETIC SURVEY

# HYDROGRAPHIC SURVEY, H\_\_\_F.E.No. 1-1970 W.D.

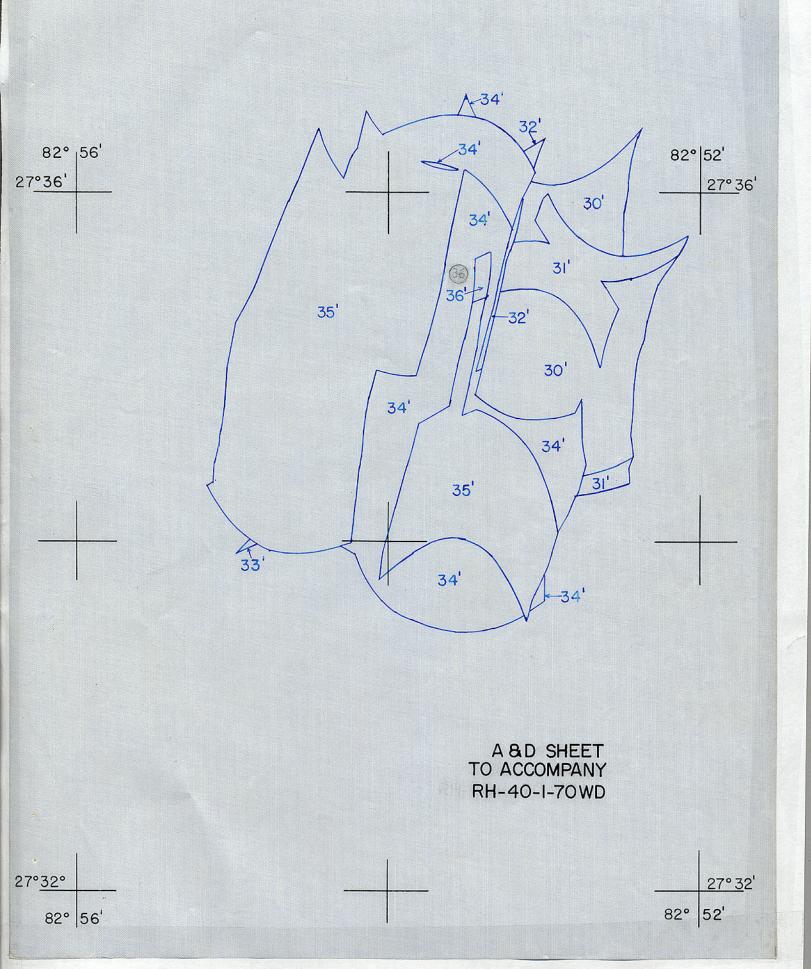
INSTRUCTIONS - This form serves to identify items of a check list in verification together with items which are separately reported to the Reviewer. The form is not to be forwarded to the Reviewer. A report, which is prepared for the Reviewer, should identify items by number and letter and will be filed in the Descriptive Report until the survey is reviewed.

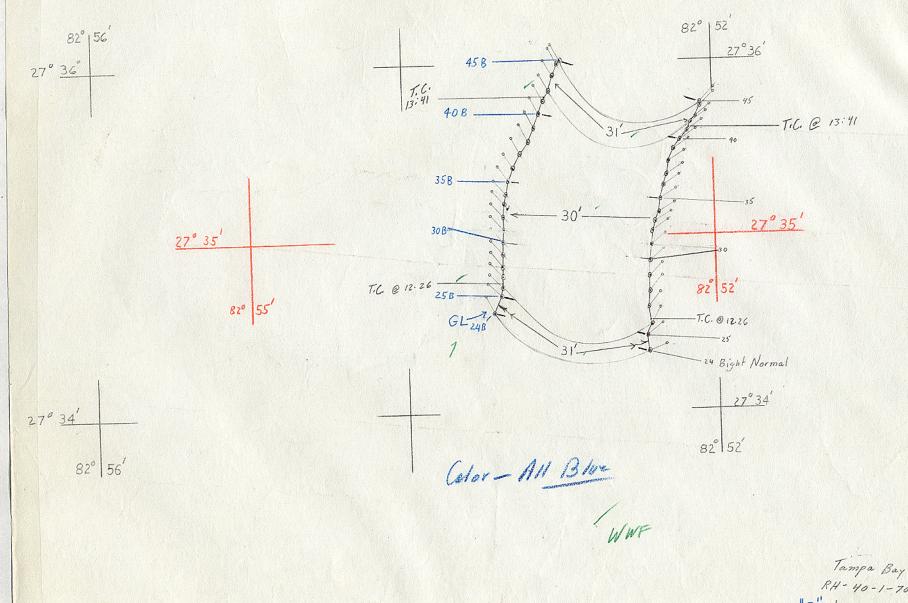
**VERIFIER'S REPORT** 

- CL Check List Items: should be checked as having been completed during the verification processes.
- R Report Item: This column refers to those items reported to the reviewer and is used to indicate the items discussed.

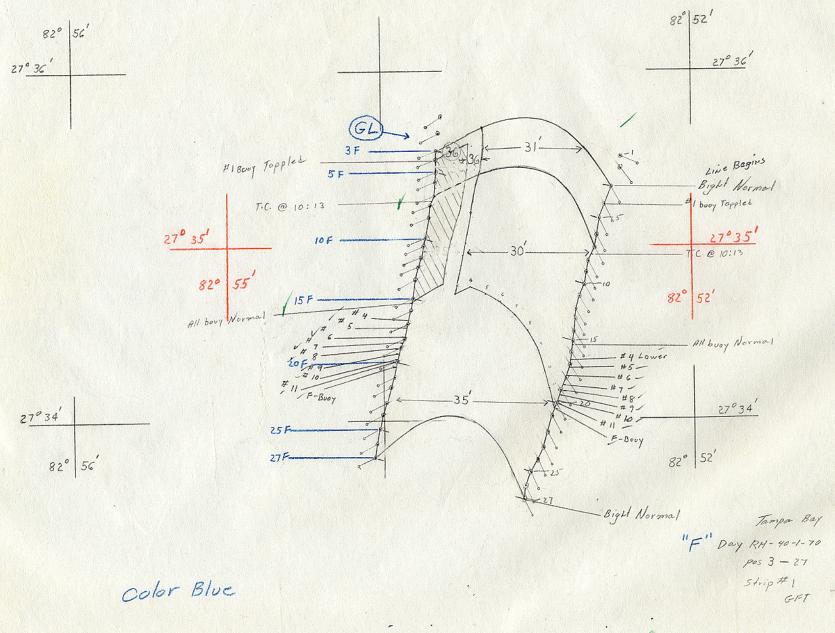
Part I - DESCRIPTIVE REPORT	CL	R	Part III - JUNCTIONS (Continued)	CL	R
Note: The verifier should first read the Descriptive Report for general information and problems.			- 10. Junctions with contemporary surveys were satisfactory except as follows:		
<ol> <li>The Descriptive Report was consulted, paragraphs checked if found satisfactory, and notations were made in soft black pencil regarding action taken.</li> <li>Remarks Required: None</li> </ol>			Remarks Required: Consider conditions after adjustments have been made; note adjustments made. Make special notes of Butt junctions and areas which are SUPERSEDED.		
<ol> <li>Soundings originating with the survey and mentioned in the Descriptive Report have been verified and checked in soft black pencil, including latitude and longitude, together with position identification.         Remarks Required:None     </li> <li>All reference to survey sheets mentioned in the Descriptive Report should include registry number and year.</li> </ol>			Part IV - VOLUMES  11. All items affecting the plotting of the survey which are entered in the remarks columns of the sounding records were noted and check marked. In all cases appropriate action was taken and exceptions noted in the volumes.  Remarks Required: None		
Remarks Required: None			12. Condition of sounding records was satisfactory except as follows:		
Port II - SHORELINE AND SIGNALS 4. Source of shoreline signals Remarks Required: List all surveys			Remarks Required: Mention deficiencies in completeness of notes or actions for the following:		
<ul> <li>Give earliest and latest dates of photo- graphs</li> </ul>			(a) rocks (b) line turns		
b. Field inspection date c. Field Edit date	٠,		(c) position values of beginning and ending of lines		
d. Reviewed-Unreviewed			(d) bar check or velocity correctors	İ	
5. The transfer of contemporary topographic information was carefully examined and reconciled with the hydrography.  Remarks Required: Discuss remaining differences.			<ul> <li>(e) time recording</li> <li>(f) notes or markings on fathograms</li> <li>(g) was reduction of soundings accurately done?</li> </ul>		
6. The plotting of all triangulation stations, topographic stations and hydrographic signals has been checked and noted in processing stamp No. 42 on the smooth sheet.  Remarks Required: None			<ul> <li>(h) was scanning accurate?</li> <li>(i) were peaks at uneven intervals missed?</li> <li>(j) were stamps completed?</li> <li>(k) references to adjacent features</li> </ul>		
7. Objects on which signals are located and which fall outside of the high-water line have been described on the sheet.  Remarks Required: List those signals still unidentified.			Part V - PROTRACTING  13. All positions verified instrumentally were check marked in color in the sounding records, and verifier initialed the processing stamp.  Remarks Required: None		
Port III - JUNCTIONS  Note: Make a cursory comparison preliminary to inking soundings in area of overlap.			14. The protracting and plotting of all unsatis- factory crossings were verified.		
3. All junctions of contemporary or overlapping sheets were transferred in colored ink and overlapping curves were made identical.  Remarks Required: None			Remarks Required: None		
7. The notation in slanted lettering "JOINS H (19)" was added in colored ink for all veri- fied contemporary adjoining or overlapping sheets. Those not verified are shown in pencil.			15. All detached positions locating critical soundings, rocks, buoys, breakers, obstructions, kelp, etc., were verified and the position numbers are legible.		
Remarks Required: None	ĺ		Remarks Required: None		

ı	Part V - PROTRACTING (Continued)	CL	R	Part VIII - AIDS TO NAVIGATION	CL	R
	16. The protracting was satisfactory except as follows:		-	26. All fixed aids located together with those on the contemporary topographic sheets, have		
	Remarks Required: Refers to protracting		Į	been shown on the survey.		
I	in general except for specific faults repeated			Barrada Barriada Cardiana d	1	
	often, or faults in control information, which required considerable replotting or adjustments.			Remarks Required: Conflicts of any nature listed.		
ŀ				<b>AT ALL C</b>		
l	17. The protractor has been checked within the last three months.			27. All floating aids listed in the Descriptive Report should be verified and checked		
	Remarks Required: Date of check, type of			in soft black pencil, including latitude		
l	protractor and number.			and longitude and position identification.		
İ	Part VI - SOUNDINGS		<u> </u>	Remarks Required: None		
	18. All soundings are clear and legible, and criti-			B . IV DOLLEGUES		
l	cal soundings are a little larger than adjacent soun dings.			Part IX - BOAT SHEET		
l				28. The boat sheet was constantly compared with the smooth sheet with reference to		
l	Remarks Required: None			notes, position of sounding lines and		
ľ	19. Sounding line crossings were satisfactory		_	supplemental information.	!	
l	except as follows:			Remarks Required: None		
l	Remarks Required: Discuss adjustments.		}	29. Heights of rocks awash were correctly re-		
L				duced and compared with topographic infor-		
ſ	20. The spacing of soundings as recorded in the			mation.		
l	records was closely followed;			Remarks Required: Note excessive con- flicts with topographic information.		
	Remarks Required: None		ļ	meto with topograpme information.		
L				Part X - GENERAL		
l	21. The scanning, reduction, spacing, plotting of			30. All information on the sheet is shown in	ļ	:
	questionable soundings have been verified.		ļ	accordance with figures 82 and 83 in the Hydrographic Manual (Pub. 20-2).		
	Remarks Required: None			, , , , , , , , , , , , , , , , , , , ,		
ļ				Remarks Required: None		
	22. The smooth plotting of soundings was satisfactory except as follows:					
	1					
	Remarks Required: - Refer to legibility, errors in spacing, and errors in numbers - but			31. Unnecessary pencil notes have been removed from the sheet.		
	not to errors in scanning.			100 (0.0 1.0 0		
l				Remarks Required: None	.	
H	Part VII - CURVES					
l	23. The depth curves have been inspected be-			32 Degree, minute values and symbols have been checked; also electronic distance arcs		
	fore inking.			have been properly identified and checked on		
	Remarks Required: By whom was the pen- ciled curves inspected.			the smooth sheet.		
ŀ	24. The low-water line and delineation of shoal			Pate to perstalle Maria		
	areas have been properly shown in accordance		ĺ	Remarks Required: - None		
	with the following:					
	g. From T-Sheet in dotted black lines			22 The beautiful and the second secon		
	b. From soundings in orange			33. The bottom characteristics are adequately shown.		
	c. Approximate position of sketched curve is			Remarks Required: None		
	dashed oránge			Nome Required. Ivone		
	d. Approximate position of shoal area not			Part XI - NOTES TO THE REVIEWER		
	sounded in brack dashed			•		
	Remarks Required: None			<b>34.</b> Unresolved discrepancies and questionable soundings.	Ì	
				soundings.		
	25. Depth curves were satisfactory except as					
	follows:			35. Notation of discrepancies with photogram-		
	(This statement should not refer to the manner in which the curves were drawn).			metric survey inserted in report of unreviewed photogrammetric survey or on copy.	ļ	
	Remarks Required: Indicate areas where			2 0		
	curves could not be drawn completely because					
	of lack of soundings. For some inshore areas a general statement is sufficient.			36. Supplemental information.		•
	Verified by			Date		
F	ORM C&GS-946A (11-65)	_		USCOMM	-DC 362	72-P65

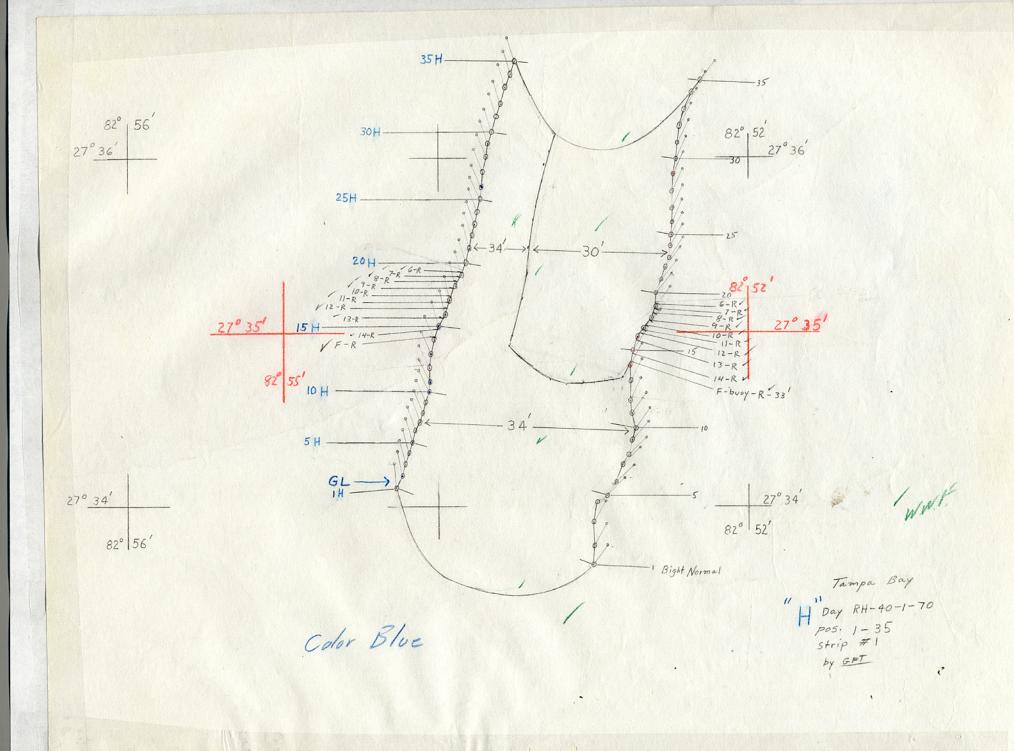


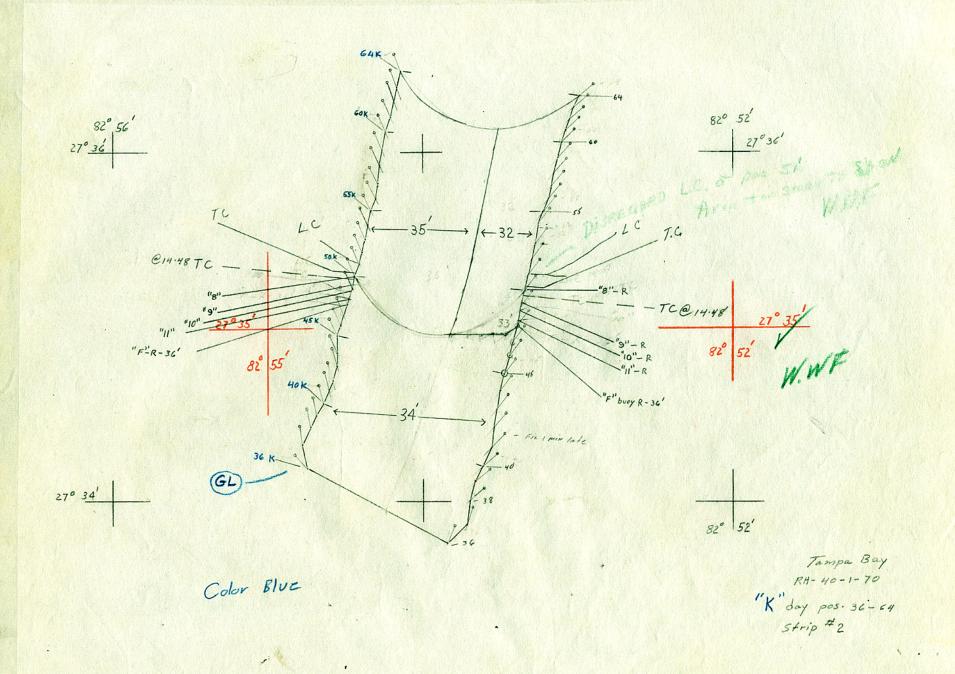


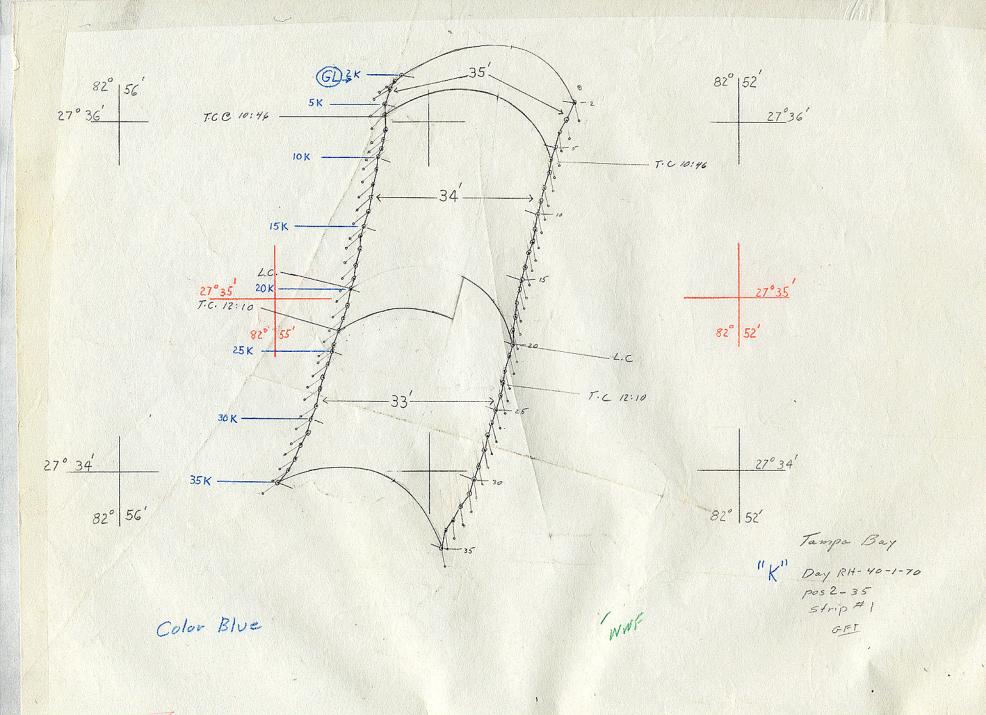
Tampa Bay
RH-40-1-70
"B" day pos. 24-46
Strip #2
GFI

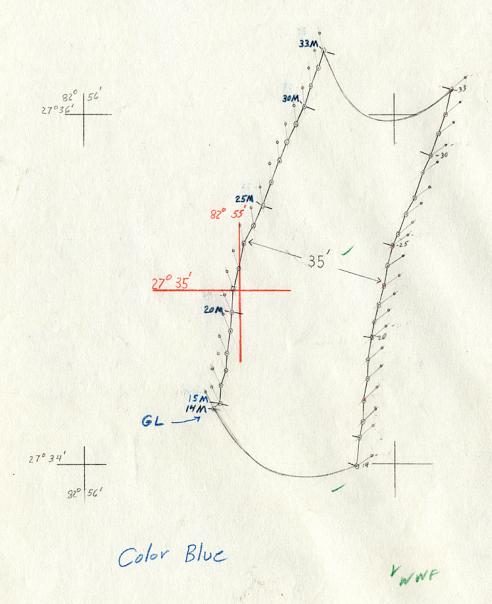


IMAG







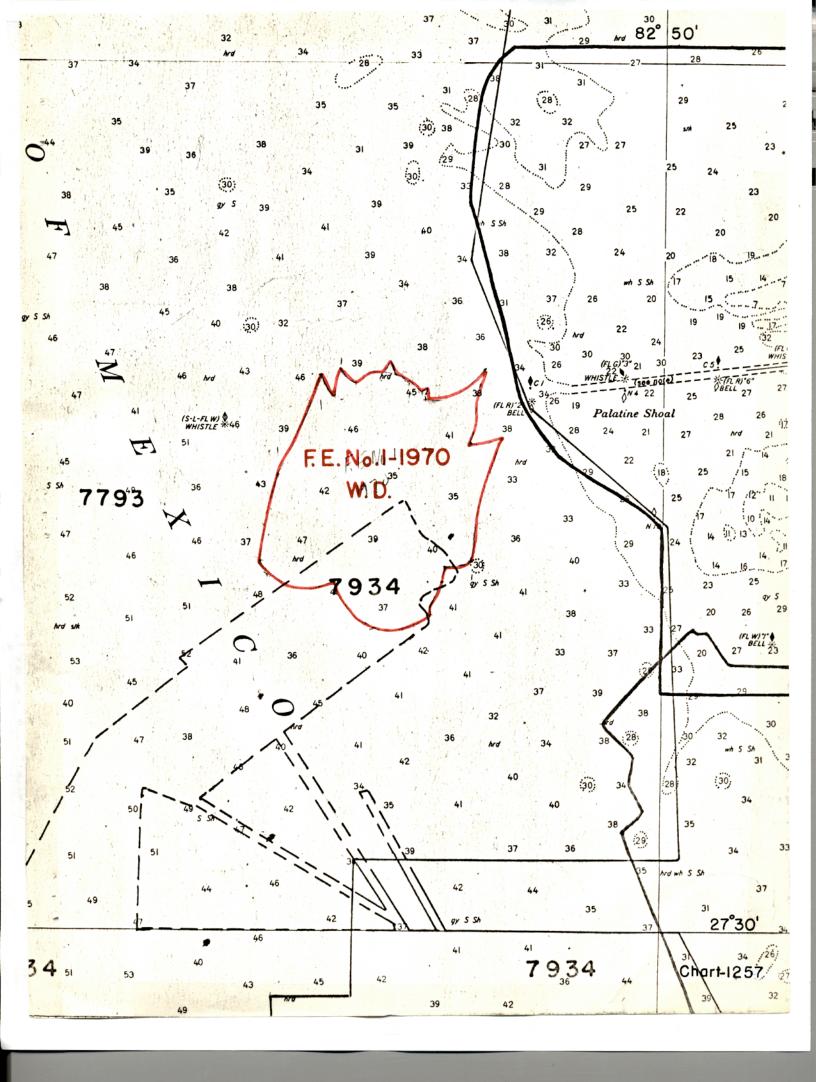


ď,

27° 36' 82° M Pay Tampa Bay Pos. 14-33 Strip#2

by GFT

6 X



### RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. F.E.No. 1-1970 W.D.

#### INSTRUCTIONS

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

1. Letter all information.

2. In "Remarks" column cross out words that do not apply.

3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

CHART	DATE	CARTOGRAPHER	REMARKS
586	5/21/71	D. Williams	Part Before Verification Review Inspection Signed Via
			Drawing No. 34 Acof
1257	5/2//2/	O. Williams	Poll Part Before After Verification Review Inspection Signed Via
120.7	3/26///	O. W. W. W.	Drawing No. 42
1113	8-6-71	C. Harrington	Tall Part Before # Verification Review Inspection Signed Via
	0 6 11	C. Hannington	Drawing No.
1007	8/4-71	1. School	Before After Verification Review Inspection Signed Via
~~~	0/0//	U Jour C	Drawing No. 47-area 3-E, No consection
1114	11/10/71	Helmen	From this some.  Part Before Werification Review Inspection Signed Via  Drawing No Sophist the CH1257
111-1	7/3/7/		Drawing No Applied the CH1257
11414	7/6/90	William Lugar	Full Pare Before After Verification Review Inspection Signed Via
11719	770770	William Grief	Drawing No.
11417	3-7-90	Who Pierce	Full Part Before After Verification Review Inspection Signed Via
11412	3-110	EDMITTELLE	Drawing No. 58
	7 71 61	1. ARKENan	Full Para Patre After Verification Review Inspection Signed Via
11400	7-31-91	1. TRKENOG	Drawing No. 37
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
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